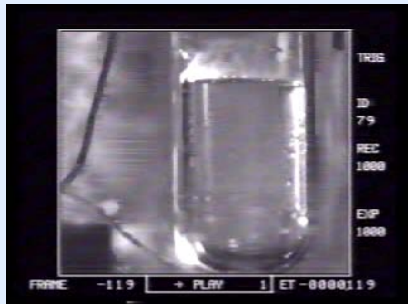
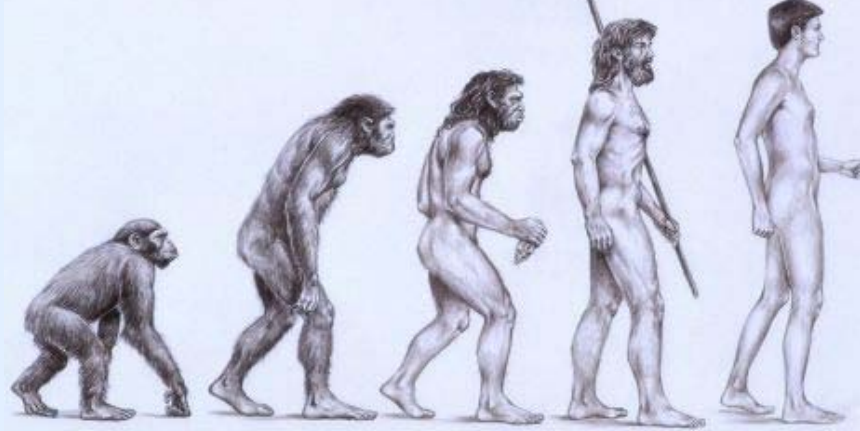


COUPP-4 kg Running Again at SNOLAB

Michael B. Crisler
Fermi National Accelerator Laboratory
04 June, 2012

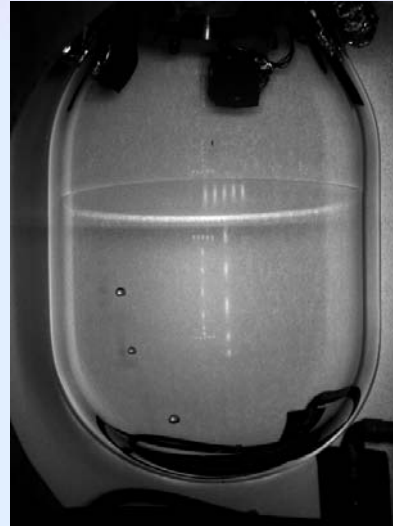
COUPP Bubble Chamber Program



Test tube



COUPP 2kg



COUPP 4kg



COUPP 60kg ²

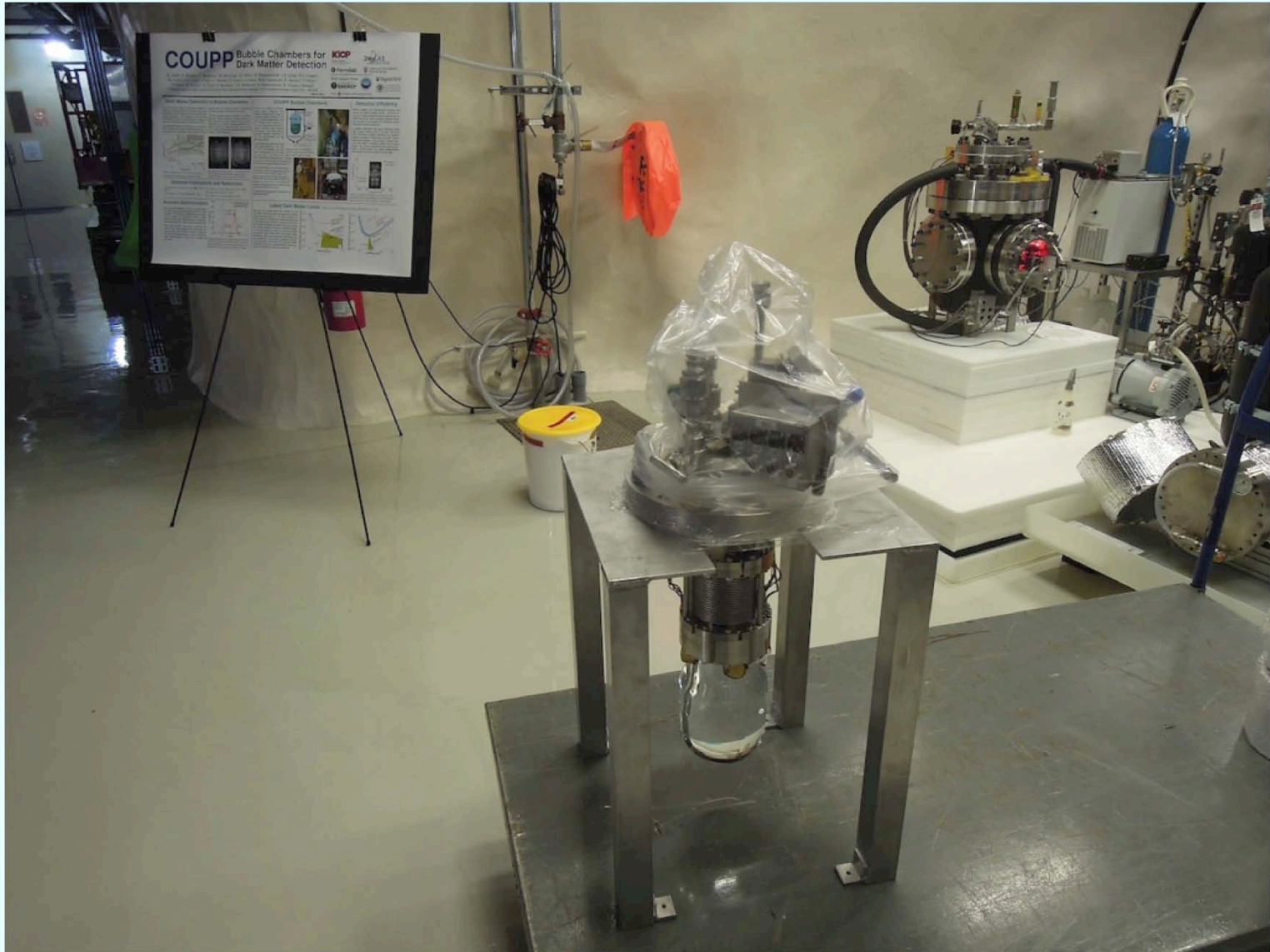
New Run of Upgraded COUPP-4kg

- New Low-Background Piezos
- Synthetic Silica Viewport Window
 - To address neutron backgrounds
- Improved CF3I Purity
 - To address possible impurity related backgrounds.

The Plan...

- Drive Chamber to Canada - May 20
- Stage Above Ground - May 21
- Deliver Underground - May 22
- Install in Pressure Vessel - May 23
- Fill with CF_3I - May 24
- Warm Up and Run - May 25

Staged Underground Tuesday May 22



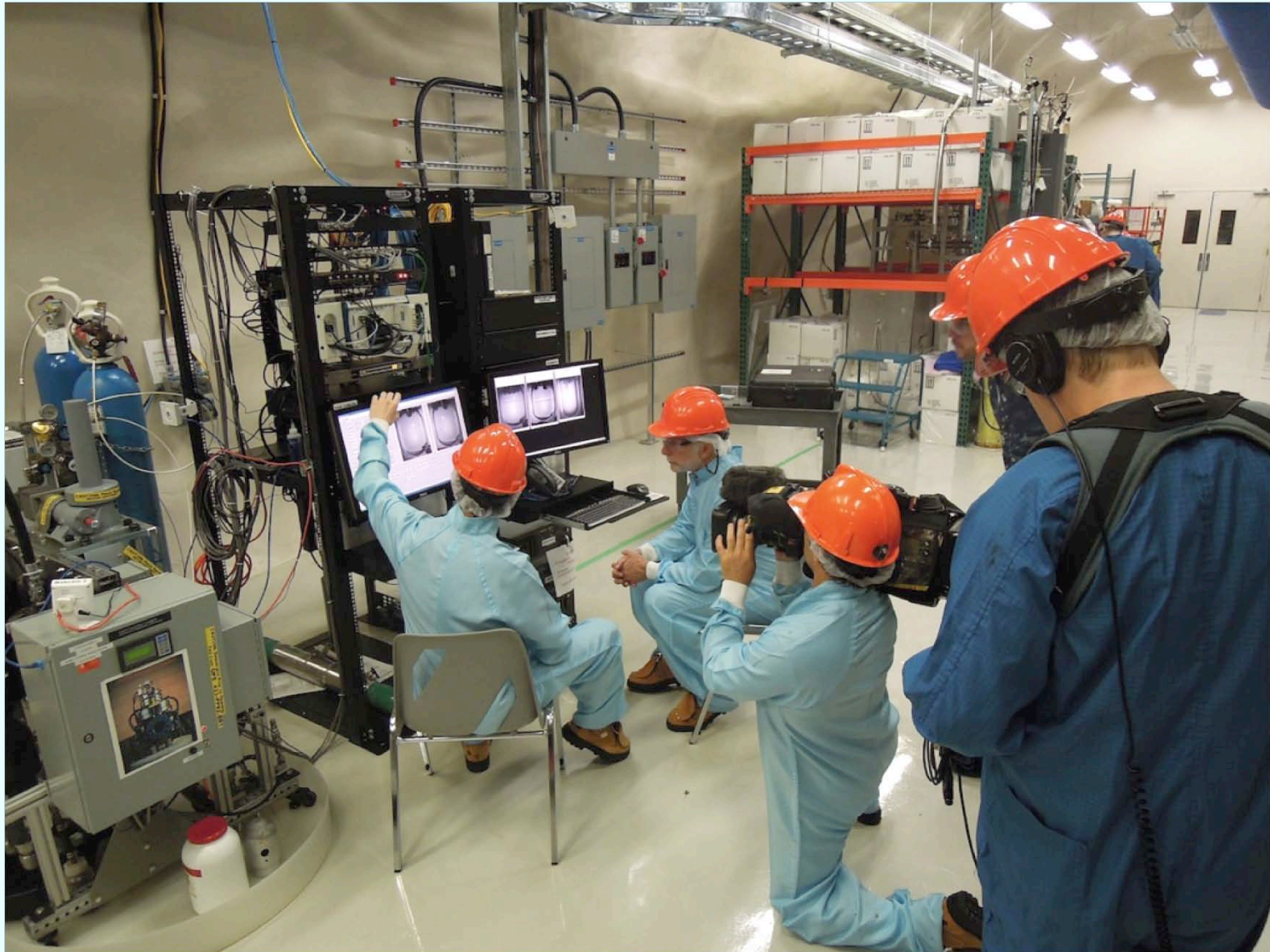
Installed Wednesday May 23



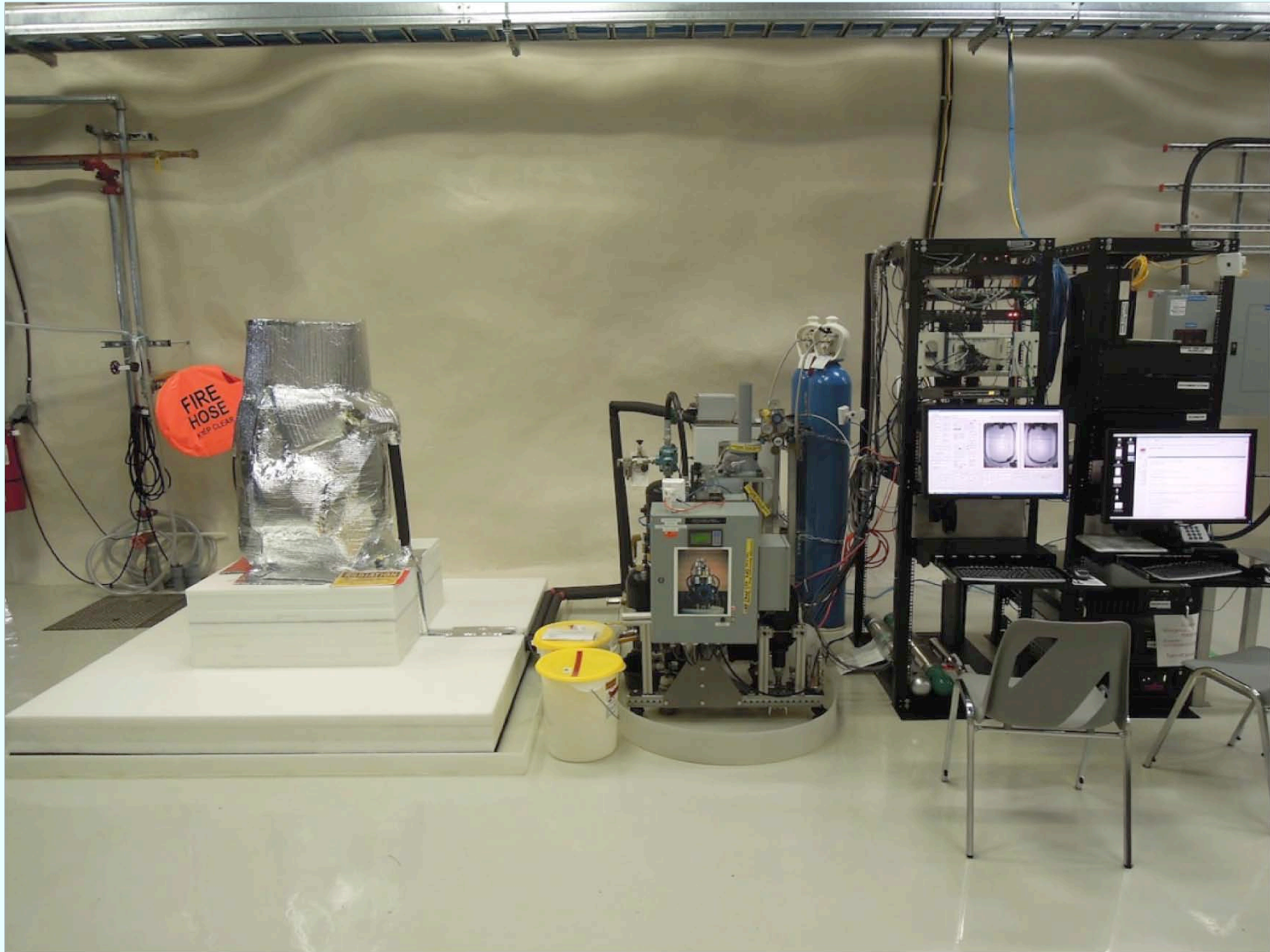
Filled Thursday May 24



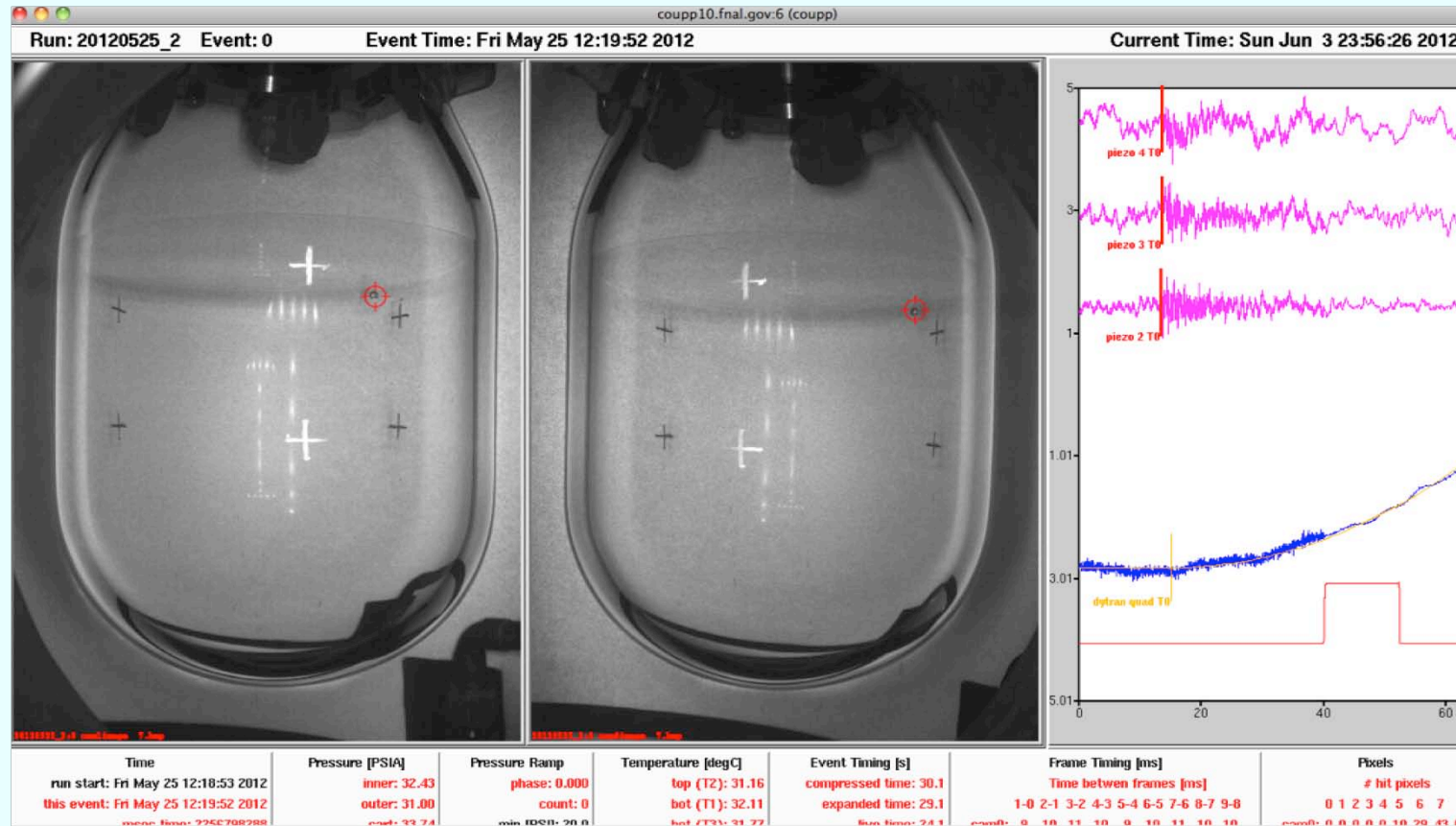
Filled Thursday May 24



Warmed Up and Operated Friday May 25



Neutron Source Event Friday May 25



New Run of Upgraded COUPP-4kg

- Summary

- Expect 15 keV Threshold operations through August-September 2012
- Followed by Lower Threshold 10-7 keV
- Alternate Fluid Studies C_4F_{10} , C_3F_8
- COUPP-60 Installation Fall 2012
- Thanks to PPD-MD
 - Especially PAB, Mark Ruschman
- Thanks to AD (AO Cleaning Facilities)
- Thanks to CD (Data handling & support)